**Homework 57** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Isosceles Triangles** Period:\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| 1) In Δ*FGH,* FH GH.     1. Name two congruent angles. 2. Name the type of triangle. | 2) Use the diagram below to answer part a) and b).     1. If AE CE, then \_\_\_\_\_\_\_ \_\_\_\_\_\_\_. 2. If DAE DEA, then \_\_\_\_\_\_\_ \_\_\_\_\_\_\_. |
| 3) Find the values of *x* and *y* in the diagram. | 4) Find the values of *x* and *y* in the diagram. |
| 5) **GIVEN**:  bisects    **PROVE:** Δ*ADC* is isosceles | |
| 6) **GIVEN:** ,  **PROVE:** | |